1992 INTECH Article Index

SUBJECT/TITLE	MONTH/PAGE #
Analytical	
Analyzing Your Advanced Control System	2/39
Atomic Clock Sets New Standards	6/64
Noise Correlator Spots Pipe Leaks	9/41
Artificial Intelligence (AI, Expert Systems, Neural Networks)	
AI Regulates Brave New Worlds	4/88
Can Neural Networks Compete With Process Calculations?	12/34
OOP & Expert Systems Transform Batch Recipes	9/26
Communications (Protocols and Methods)	
Fieldbus Comes Closer To Plug-In	2/24
RISC & UNIX In The Process Industry	1/11
Control	
Batch Neutralization Of Industrial Waste	1/29
CIM Capitalizes On Distributed Controls	2/17
Continuous Control Gets On-Line Advisor	8/32
Controlling Temperature In Batch Reactors	4/69
Controls Manage Nuclear Automation	4/27
Design Considerations For Discrete Alarm Systems	9/30
Designing Multivariable Control Systems With DCS Software	7/35
Low Pressure Sensing And Control	9/38
P&IDs Support Control System Design	1/24
Planning & Design For Systemwide Control — Part 1	6/20
Planning & Design for Systemwide Control — Pt 2	7/22
Quality And Control Considerations "CIM"plified At ISA/92	10/23
Robust PID Tuning Using IMC Technology — Pt. 1	10/36
Robust PID Tuning Using IMC Technology — Pt. 2	11/36
Streamline Your Process With Discrete Control Groups	6/33
Thinking About Control System Design?	6/19
Troubleshooting Your PID Control Loop	5/35
Wastewater Treatment Costs Controlled 25% Annually	7/18
What Cell Control Means For Process Industries	6/28
Control System Devices (Distributed Control Systems, PCs & PLCs, Also UPS, Fault Tolerance)	
Can PLCs Overcome Control Constraints?	3/20
Choosing A DCS System	1/12
DCS Vs. PLC — Enough Already!	9/21
Emulation Proves Its Worth	6/37
OIs Are Operator Eyes, Ears, Nose, And Hands	10/26
Operator Interface Products Showcase	10/28
PC Offers New Fault-Tolerant Approach	11/30
PC-Based DAC Analyzes Eclipse	3/74
PCs Beef Up For Industry	5/21
Tired of Windows? Try Viewing Walls	9/72

SUBJECT/TITLE	MONTH/PAGE #
Data Acquisition	
Benchmarking Studies In Process Control	11/44
Data Collection Programs: Implementation Made Easy	8/30
Keys to Success In Data Acquisition System Design	8/24
PC-Based DAC Analyzes Eclipse	3/74
Final Control Elements (Valves, Positioners, Pumps, etc.)	
It's 18 mA — Do You Know Where Your Positioner Is?	5/30
Smart Valve Intelligence Takes Many Forms	8/36
Vagrant Vapors Vex Lax Execs	3/24
Integration	
Choosing Fiber Optics For CIM Networks	3/32
CIM Capitalizes On Distributed Controls	2/17
Whitbread Brews CIM Solution	1/31
Intrinsic Safety	
Intrinsic Safety Circuit Design — Pt. 1	10/44
Intrinsic Safety Circuit Design — Pt. 2	12/26
UPS Protects Electric Utility	9/43
ISA Show Articles	
ISA/92: Fieldbuses Flood The Highways	12/30
Quality And Control Considerations "CIM"plified At ISA/92	10/23
Toronto Sets the Scene For ISA/92 Canada	4/91
Management	
Benchmarking Studies In Process Control	11/44
Clearing The Hurdles To Project Success	7/17
Design Considerations For Discrete Alarm Systems	9/30
Diffusing Anxiety By Clearing The Air	1/14
Money Not A Quality Motivator	9/23
On Your Mark, Get Set...	1/16
Quality Is Free?	4/22
Quality — Is It Really Job One?	8/21
Quality Should Be Documented, Never Dictated	5/26
Quality And Control Considerations "CIM"plified At ISA/92	10/23
Thinking About Control System Design?	6/19
Maintenance/Troubleshooting	
Troubleshooting Your PID Control Loop	5/35
Quality (Also ISO 9000, Etc.)	
ISO 9002 Is The Right Thing To Do At Digital-Kanata	8/42
ISO 9000 Focuses on Quality Improvement	4/17
Money Not A Quality Motivator	9/23
Quality — Is It Really Job One?	8/21
Quality Should Be Documented, Never Dictated	5/26
Quality And Control Considerations "CIM"plified At ISA/92	10/23
Quality Is Free?	4/22

SUBJECT/TITLE	MONTH/PAGE #
Retrofit/Upgrade	
Custom Records Key Control Retrofit	11/26
Treatment Plant Gets Upgrade	3/29
Sensors (Fiber Optic, Flow, Level, pH, Pressure, Temperature)	
Achieving Flow Accuracy	3/36
Choosing Fiber Optics For CIM Networks	3/32
Controlling Temperature In Batch Reactors	4/69
Detecting Hydrocarbons With Cross-Linked Sensing Cable	2/21
Digital RF Capacitance Caps Coating Problems	12/22
Gas-Purged DP Transmitters For Liquid Level & Flow	11/22
Level Probes Allow Continuous Monitoring	3/42
Low Pressure Sensing And Control	9/38
Microwave Radar Targets Tough Applications	3/39
Observations On Flowmetering	3/16
Rating A Flowmeter's Field Performance	7/30
Remotely Set Pressure Regulators: A User's Perspective	11/40
Solving Material Metering Problems	4/66
Statistical Analysis Targets Leak Detection	9/33
Software	
Control Software Drives PC Engines	6/24
Designing Multivariable Control Systems with DCS Software	7/35
OOP & Expert Systems Transform Batch Recipes	9/26
Swiss Plant Optimizes Operations	5/132
Tired of Windows? Try Viewing Walls	9/72
Standards (ISA's And Others, ISO 9000, Fieldbus, Etc.)	
Fieldbus Comes Closer To Plug-In	2/24
ISO 9000 Focuses On Quality Improvement	4/17
ISO 9002 Is The Right Thing To Do At Digital-Kanata	8/42
Surveys	
1992 Salary Survey	9/18
1992 Control Industry Outlook	1/19
Training	
Calculating The Cost Of Training	3/19
Transmitters & Transducers	
Gas-Purged DP Transmitters For Liquid Level & Flow	11/22
Slow Oil Loss In Pressure Transmitters	10/40
Transmitters Face Market Pressures	7/26

EDITOR'S NOTE: A complete Chronological and Author Index is available from INTECH upon request. Contact Cindy A. Kent, INTECH, P.O. Box 12277, Phone: (919) 990-9287, or FAX: (919) 549-8288.